

SEQUENCE LISTING

<110> EXONHIT THERAPEUTICS SA

<120> Identification of diagnostic markers for Communicable subacute spongiform encephalopathies

<130> 3665-178

<140> 10/578,672

<141> 2006-06-20

<150> PCT/FR2004/002892

<151> 2004-11-10

<150> FR 03 13275

<151> 2003-11-13

<160> 26

<170> PatentIn version 3.1

<210> 1

<211> 191

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 1

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attgacctgg aggaggcaga agatgagatc gaggacattc agcaggaaat cacagtgtg 120
 agtcagtgtg acagtcacct cgtaaccaa tttacggat cctacctgaa ggacactaaa 180
 ttgtggataa t 191

<210> 2

<211> 244

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 2

tatctgcaga atttcccctt gagaagcgtt atggggtgca ggtaagttat tacacaagag 60
 aaagaagttt tcttactaac agcaagatta atggcacaat tcaacaaaa ctcataata 120
 ttttactgct taatttacat attatttttg tggaaaaaat agtattcttt attctttcag 180
 tttctttatg caaaaataca cttctacagg gacatcactt agatgttatg caaacctccc 240
 cccc 244

<210> 3

<211> 325

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 3

gagacatttg gccaaaagag gaatttccag gacaccaaca acatccatta ttccattatt 60
 catttgtttc ctgaagagca aacacttctt tgaaattctt ctcaaattct gcctccagtc 120
 taagcccat ttggccaaaa tcattgaact tgaaagatgc cctgtgggtc tgaaagatga 180
 gacgcattgc ccacacaaac ccttccacat tggagtagcc ctgctcattc agcctcttct 240
 tgatcttgtc cagccacatg ggctccttga gggtttttaga agcctcttct atataataat 300

aataggggaat cctcactata acgct

325

<210> 4

<211> 688

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 4

| | |
|---|-----|
| aagcgttatg caggtaggcc gacaaggcga agtgggatgc cggagagcgg ccgagttatt | 60 |
| gctccgagga gaccacgttc accggttact atggcgaccg ccccatcccg gatcactatc | 120 |
| agccgttcac cgccgatgag gcgacgtggt tccagctctg ggagacggtg agcgagggca | 180 |
| ctcctacgtc gccgccttc gcgacgattg aggaactggc agcctacctc gccgagtggg | 240 |
| gcgaattctg tgatcacagg cgcgccgtcg agtccatgga cgcgcgcgag attgagcgcc | 300 |
| tcctgacgct gaatgaccgg cactagttca aggtgcggct gggggcagca gcgcgcctaa | 360 |
| gctttctgca agactggctg ggcgcccagc atgatggtcc gcggcggcga gatcctgacc | 420 |
| aaccctgggg acatggtgtc gtcgtgacct tcgcctagct ctctcacaca cctaggagga | 480 |
| agagatgacc accccaaca ttcgcggcca cgagaccgaa gccaaaggccc gcaaggcggc | 540 |
| gatgaagtgg ttcaccttca cggacggcac caagcctgtc gagggcgctc acttccacat | 600 |
| caagcagaac cacttcgggc tctggacctt ccgggagggc ccggctccga agtccgccgg | 660 |
| accccgcatc actcataacg cttctcaa | 688 |

<210> 5

<211> 373

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 5
agaagcggtta ttgctgatac ccgctacatg ttctccaggc ctttcagaaa acatggagtt 60
gttccttttg ccacatacat gcgaatctac aggaagggtg atattgtaga tatcaagga 120
atgggtactg ttcaaaaagg aatgccccac aaatgttacc atggcaaac tggaagagtc 180
tataatgtca cccagcatgc tgttggcac attgtaaaca aacaagttaa gggcaagatt 240
cttgccaaga gaattaatgt gcgtatcgag catattaagc actctaagag ccgagatagc 300
ttcctgaaac gtgtgaagga aaatgatcag aaaaagaggg aagccaaaga gaaagggact 360
tggggttaac acc 373

<210> 6

<211> 235

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 6
gggcgagggt caccctgggg atcctccagg gccaggccct ggcacaactc gtctccatca 60
cacagatggg ccgtcgctg gtcgtggctc tcaggagtca gaccggaaaa agccagccct 120
ggggcaacca ggagcaccga ggtgatgagc aggacagccc aggaggtcat gttgaggcag 180
ctgaaaggtc tgtgcaagtc aatcatgaag aaatttctcc gtaccatcac ctccc 235

<210> 7

<211> 285

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 7
cttgtgtagg cagaggttcc agggtcagtg gaggaagcag catcacagcc agatccatgg 60

| | |
|---|-----|
| ttgggggatg gccacgggaa atgacttggt gactgactct gatctcagag tgggacaggc | 120 |
| tgacaggcat ctgggaattc cgggcaaggc caggcacgta ttatagaaga gcaaacacca | 180 |
| atcccaaaat atcctcagga atcagcgcat gagcccttc tggctcctgt gatggatgat | 240 |
| gaggcccagc ccaaggaaga tcagccccag caciaagcct ccaac | 285 |

<210> 8

<211> 235

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<220>

<221> misc_feature

<222> (44)..(85)

<223> N = A, T, G or C

| | |
|--|-----|
| <400> 8 | |
| tctgcagaat tcgcctctga gaagcgttat ccgttgacc caannnnnnn nnnnnnnnnn | 60 |
| nnnnnnnnnn nnnnnnnnnn nnnnncaaga gaaaagatca gaggggtgctg gtgtgacgtt | 120 |
| taagtaggaa aaggcctgga aggtgagtcc atcaaccgcg gagacaaaag tgggcccggc | 180 |
| tccttcaca ggtgccgact gatgctgccg gttcacggtc agtgtgggtc aacac | 235 |

<210> 9

<211> 400

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<220>

<221> misc_feature

<222> (18)..(57)

<223> N = A, T, C or G

<400> 9

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aagcggttatt tagataannn nnnnnnnnnn nnnnnnnnnn nnnnnnnntac      60
accagagta ttccatagtt tgatgggttt gtctcgggag ccagagacaa tttgccggtt   120
gtcagaagag aaggccacac tcagcacatc tttggatatg cctacaaatc ggcgagtggg   180
ggtgcccgtt gtgagatccc aaaggcgaag ggttccatcc caggagcctg agagggcaaa   240
ttggccatct gaggaatga ccacatcact aacaaagtgg gagtgacccc gaagagcacg   300
ctgtgggata ccatagttgg tttcatctct ggtcagcttc cacataatga tggctttatc   360
tcgagaggcg gacgatatca tgtccgggaa ctggggagtg                        400
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<210> 10

<211> 397

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 10

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gggccagggg atgatatgaa tgtcacagga ggagacacct tctgtctttg tttcaaagaa   60
agttgatgtg ccatttggtta atatacaaga gaaatattga aaatatattg aaaagagcaa   120
ttttaaatta tttttggctt atgttgcaat atttattttc ttgtattagg aaagattcct   180
ttgtagaaaa aaaatgtatt tttcattaac gcaaaaacct atttctcctt tttgtacatt   240
gtccatgttc gctaccctta acgagcaata gaatgtatgg ctgcctcggg gtggccgggtg   300
cccgcgtgcc ctgcatgatt ctgtgggtccc accaccatgt agctcccagt cccatcctgt   360
cctgctcact catggggggtt tccagagcct agccccct                        397
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<210> 11

<211> 397

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 11

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| tggattgcag | gtgactgaga | aaaccatcga | ggacagtttt | taaggggtca | ctgagccagg | 60 |
| agcaaattgag | atcctgagaa | agtacttcat | tgtggaagag | ttagcactaa | gcaggaaacc | 120 |
| tttccatgct | gtgaagaagc | tgggacagaa | ggttcttcct | tgagtgtgac | catcttcact | 180 |
| tcagctcagg | agccctgttg | gctgaagtgt | agggcgctct | ttctgattcc | tgaagtatat | 240 |
| ttattagccc | cacggcaagg | aagaacagac | tcagaacgaa | gcccccgact | ccactcatca | 300 |
| tcttgetctg | agcagagtca | gaccgtgccc | tccattctac | tgtgataggg | cttgtctggc | 360 |
| tggggtgctc | cacttgga | gtgtagacct | ggcacca | | | 397 |

<210> 12

<211> 454

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<220>

<221> misc_feature

<222> (435)..(446)

<223> N= A, T, C or G

<400> 12

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| gctgtccaaa | aaggcctccg | ttatggaata | attcttttta | ttatctccga | agtactattc | 60 |
|------------|------------|------------|------------|------------|------------|----|

| | |
|--|-----|
| tttacccgat ttttctgagc tttctaccac tcaagcctcg cccccacccc tgggggagggc | 120 |
| ggctgctgac cccaacagg cattcaccca ctaaaccccc tagaagtccc actgctcaac | 180 |
| acctctgtcc tattggcttc cggagtttct attacctgag cccatcatag tttaatagaa | 240 |
| ggggaccgaa agcatatatt acaagcccta tttatcacca tcacattagg agtctacttc | 300 |
| acactactac aagcctcaga atactatgaa gcacctttta ctatctccga cggagtttac | 360 |
| ggctcaactt tttttgtagc cacaggcttc cacggcctcc acgtcatcat tgggtccaac | 420 |
| aaataacgct tctcnnnnnn nnnnnntgca gata | 454 |

<210> 13

<211> 219

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<220>

<221> misc_feature

<222> (47)..(140)

<223> N = A, T, C or G

| | |
|---|-----|
| <400> 13 | |
| ggggaggtat ctgtcaccca cgcagaaatg cttctgacag gcggcannnn nnnnnnnnnn | 60 |
| nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn | 120 |
| nnnnnnnnnn nnnnnnnnnn cttggccgaa aagcctgagg tagtctcggc ggcagagctt | 180 |
| ccggcccagc ttgtagtaga ggcgccggcc cacctaccc | 219 |

<210> 14

<211> 386

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 14

| | |
|---|-----|
| gaagcgttat tggaggaggc taacctagga gcagaggatc agttcacgaa gagcgagcgg | 60 |
| gtgaactcga cgtagtcaaa agcagtgggg agttcgcggc ccttgctgtc cacgtagggc | 120 |
| ttcatgtggg agacgcagta gtcggcttgt tcccgagtca agttctggta cagctcctcc | 180 |
| ttggtcacat aaggcttccc ttcagagctc acggcccgga aggcgctctc aatctcctcg | 240 |
| ctggacttga cgttctccgt ctcacggctg atcataaagg acatgtactc ttgcatggag | 300 |
| acgtggacgt ccctgttagg atccacagtg tccaagatgg actcgaactc aaggtcgggc | 360 |
| tccccttctc ccaacatggg caggtc | 386 |

<210> 15

<211> 472

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 15

| | |
|---|-----|
| tctgcagaat tcgcctttga gaagcgttat gggggcgagg tggtaaagga agcttacaaa | 60 |
| acaactattc tttaaaaaaa aacaaaaaaa caaaaaaaca aaaaacagca aaagccaacc | 120 |
| ggcccaattt tgtctccagt tttcaacgtg tgctttcgag catttcagct gtttccagtt | 180 |
| actttagttt ccagatatta gtcttcatt tagttttaag actaaatctc acttttggat | 240 |
| aaacacaagg aaatatttta cttgctgaaa aatcacttta ctggataaag ttacctctta | 300 |
| tgcccttcag ttttctaate caactttctg acaaccagtg gtaattagga agttctaagt | 360 |
| tgcaattgtc cctatgactt tgggcttccc tgggtgctca gctggcctc aatctgcctg | 420 |
| caatgcggga gacctcacc ccataacgct tctcaaaggc gaattctgca ga | 472 |

<210> 16

<211> 424

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 16

| | |
|---|-----|
| ttgagaagcg ttattgtggg gaggtcatag ttgatgacta aggaaacttg ctgtacatca | 60 |
| atacctctgg ccagtaggtc agtggtaatc aatactctgc tggagccaga gcggaactcc | 120 |
| ctcatgataa cgtctcgttc tttttggtcc atgtctccgt gcatggcaga gacggtgaag | 180 |
| tctcgggcat gcatcttctc ggtgagccaa tccaccttcc ttcgggtggt gatgaagatg | 240 |
| actgcctggg taatggtcag ggtttcatac aagtcgcaca gtgtgtccag cttccactcc | 300 |
| tctcgttcca cattgatgta gaactgacgg ataccctcca gcgtcaactc ttccttcttg | 360 |
| acaagaattc taattgggtc cctcatgaac ttcttgggtca cctcccgcc ataacgcttc | 420 |
| tcaa | 424 |

<210> 17

<211> 474

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 17

| | |
|---|-----|
| cttgtatggt gtatggaagt tacttggtaa atccagaatc aggatacaat gtctccttgc | 60 |
| tatacgacct tgaaaatctg cctgcatcca aggattccat cgtgcatcaa gctggcatgt | 120 |
| tgaaacgaaa ctgttttgcc tctgtctttg agaaatactt ccagttccag gaatgagggc | 180 |
| aaggaatgag agttaggggc agttatccat tatagggatg atgagaccat gtatgttgag | 240 |
| tcaaaaaaag acagagtcac agtagtcttc agcacagtgt ttaaggatga cgacgatgtg | 300 |
| gtcattggaa aggtgttcat gcaggagttc aaagaaggac gcagagccag ccacacagcc | 360 |
| ccacagggtc tcttcagcca cagggaacct cccttagagc tgaaagatac cgatgccgcc | 420 |

gtgggtgaca acattggcta cattaccttc gtgctgttcc ctgcccgaat ataa

474

<210> 18

<211> 372

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<220>

<221> misc_feature

<222> (362)..(368)

<223> N = A, T, C or G

<400> 18

ccagtgtgtt gccctgaga agcgttatat gcggtagtga ggggaatttc aattacatcg 60

agttcacacg catccttaag catggagcga aagacaaaga cgactaaaaa gaacttcaaa 120

ctccagccaa acgttccttg ttgccactct ggggtatttct gagactttct cttagagcct 180

gttgcacatgc cttagcttta cagcttctgc ctttcttttg tatttattct cagccatttg 240

gggcacatgc atctctataa tcagactgga tatgggactt cttgtcattt taagagtaga 300

aaatagggtg atttaactta ccagctgccg tctacctcc cccaaagtca taacgcttct 360

cnnnnnnnca gc 372

<210> 19

<211> 535

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 19
tctgcagaat tgcgctctga gaagcgttat gctgagaggg gggactggaa gctttgctga 60
tatttactca atattcaciaa ggggcctgtg taatgtgttt cacaggtagt gctaattgctc 120
aatgcaagat gcatttcagc cttgtaattc ctttcatttg agtctttgaa ccatgtccaa 180
tgaaccagag ctcaaactaa tcaattttgt agttggtatt tgttggaggg gaggcaggca 240
tggacagcaa tagggagtga gctggagaga tgctttgcta accatagtaa actgtgaaaa 300
aatagttact tcctgaaaaa aggaaatatt cttgagagca ccttcataat gtcacaaat 360
acatggctaa atacattgtc ttgagcctcc ttctaagt ttcttagttt tttttcatat 420
tccatcttta gtaattcaat ttccccctct ttttctgca taatcttctc gcatgcttga 480
gcacactcct tttccacttt ttggatttcc atttctaatt gatcaatata tcttt 535

<210> 20

<211> 527

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 20
agaagcgtaa tcgggtaggc taacctagga gcagaggatc agttcacgaa gagcgagcgg 60
gtgaactcga cgtagtcaaa agcagtgggg agttcgcggc ccttgctgtc cacgtagggc 120
ttcatgtggg agacgcagta gtcggcttgt tcccgagtca ggttctggta cagctcctcc 180
ttggtcacat aaggcttccc ttcagagctc agggcccggg aggcgctctc aatctcctcg 240
ctggacttga cgttctcggt ctacggctg atcataaagg ccatgtactc ttgcaggagag 300
acgtggccgt ccctgttagg atccacagtg tccaggatgg cctcgaactc agggtcgggc 360
tccccttcct ccaccatggg caggtcatag cccaggagag gcagacagga tttgaactcc 420
tgggtggttca gccggccaga cttgtccttg tcgaagtgtt tgaacatcat gctgaattct 480
ttgagggcct tacagataac gcttctcaaa ggcgaattct gcagata 527

<210> 21

<211> 546

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 21

| | |
|--|-----|
| gagaagcgtt atggcgggga ggtaccgaaa gcacagtaat cactgggtgtc gatattgtca | 60 |
| tgagccatca cttgcaggaa accagcttca caaaagaagc ctacaagaag tacatcaaag | 120 |
| attacatgaa gtcaatcaaa gggaaacttg aagaacagag accagaaaga gtaaaacctt | 180 |
| ttatgacagg ggctgcagaa caaatcaagc acatccttgc taatttcaaa aactatcagt | 240 |
| tctttatttg tgaaaacatg aatccagatg gcatggttgc tctgctggac taccgtgagg | 300 |
| atgggtgtaac cccatatatg attttcttta aggatggttt agagatggaa aaatgttaac | 360 |
| aaagttggca gttacttttg atcaatcacc tcccccccat aacgcttctc taatgcttat | 420 |
| tcatgcagac aacaccagga cttagacaga tgggactgat gtcattctga gctcttcatt | 480 |
| tgttttgaac gttgatttat ttggagcgga ggcattgttt ttgagaaaac gtgtcatgta | 540 |
| gggtccc | 546 |

<210> 22

<211> 310

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 22

| | |
|--|-----|
| ggggtaggtc aaaaaaagtc caaaccaaaa acaaaacctg ccaaaaccaa caaaaaacct | 60 |
| ccgaaatctg aagacaactg aatcaatccc tgcagtctca ctttctcttg gaaagaaaag | 120 |
| ttggataatc caaccctttt acaaaggata atacaagggg gacagttcca agctctcagg | 180 |
| aacaggggtct tagacgcttt tggagggtga gaggcacaaa acggcagtct gaaaattcct | 240 |

| | |
|---|-----|
| ttcatctcac ggcactgatt gagtttagac ttgatttctc ctcccctacc tacccgatat | 300 |
| aacgcttctc | 310 |

<210> 23

<211> 151

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

| | |
|---|-----|
| <400> 23 | |
| gaagggcagg cgcgaaaggc agctacagcc agtgagaaat cagatggcat ttacacgggc | 60 |
| ctgagcaccc ggaccagga gacttatgag accctgaagc atgagaaacc accacaatag | 120 |
| ctttagaaca gatgcccttt gtcacttctt t | 151 |

<210> 24

<211> 379

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

| | |
|---|-----|
| <400> 24 | |
| aatgtaaggg ggattagagt gattatggga gcagctaaag atgagagggg ctgagttttc | 60 |
| cgcaacacta aatctaaaaa gtattttggc ttcttactgt agagagcaga cctctacagg | 120 |
| aatcctacat tggaaaagag acccagaggt ctgcggttca ctgctgccac actgtctcac | 180 |
| atagtacctt tggagtaggc ctgacagaga gcacagggaa gcttcagaaa cctgtaattc | 240 |
| aagattttat ttttttgaga cgttctctct gatactgttc cccgccagcc ttttttaaaa | 300 |
| gtttgagaaa cttttcaagc tctgcaaaag gggacaaaga atttgccttg cagtgtgggg | 360 |
| atatgattga gcggcagtg | 379 |

<210> 25

<211> 251

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 25

| | |
|--|-----|
| gtggtaggtg actgaggagt gtggcaagtt tgggtgctgtc aaccgtgtca tcatctacca | 60 |
| agagaagcag ggcgaggaag aggacgcgga gatcattgtc aagatttttg tggagttttc | 120 |
| cgtagcctct gagactcaca aggccatcca ggccttcaat gggcgctggg ttgctggccg | 180 |
| caaggtgggtg gctgaagtgt atgaccagga gcgttttgat aacagtgacc tctctgcatg | 240 |
| acctcccccc c | 251 |

<210> 26

<211> 290

<212> DNA

<213> artificial sequence

<220>

<223> ESB marker

<400> 26

| | |
|--|-----|
| gatcagtaca gctgccgagt gaaacacggt actttggaac aaccccgat agttaagtgg | 60 |
| gatcgagacc tgtaagcagc accatcgaga tttgaacatt cttcatttgg tataatatct | 120 |
| ggaaaattct gtttccctgc tctttaatac tgatatgctt ttatgcttta tgcgcataat | 180 |
| cagaagtcatt attcatgtta ccataaatac cttctttata attttaccgt gggtgctaca | 240 |
| tgtccatggt tgaccttcct aggcagggtgt ctgcagtgga ggtccacaaa | 290 |